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[MOS/LSI Design and Application](#) U of Minnesota Press

Alpha Architecture Reference Manual, Third Edition is the authoritative reference on the definition of Alpha architecture. Revised by the Alpha Architecture Committee, this book contains a complete description of the common architecture required of all implementations and describes the interfaces to support the Windows NT, Digital UNIX, and OpenVMS operating systems. The third edition reflects the latest implementations of the architecture, including the 21164A, 21164PC, and 21264. Some of the extensions to the architecture and the enhancement to the technical content include: new byte and word load, store and sign-extend operations; new multimedia instructions; new population enumeration and floating-point square root instructions; new instructions to improve data cache efficiency and updated Windows NT section. The Alpha chip is the fastest chip on the marketplace today. It runs Windows NT, UNIX and OpenVMS operating systems. New base-level server configurations provide four times the memory of current systems. Contains updated Windows NT section to reflect current technical port to Alpha Includes new insights into the software aspects of the implementation Covers new multimedia instructions for increased performance with high-end graphics applications

[Cast Iron Technology](#) Digital Press

One of the greatest challenges for nuclear energy is how to properly manage the highly radioactive waste generated during irradiation in nuclear reactors. Accelerator Driven Systems (ADSs) may offer new prospects and advantages for the transmutation of such high level nuclear waste. ADS or accelerator driven transmutation of waste (ATW) consists of a high power proton accelerator, a heavy metal spallation target that produces neutrons when bombarded by the high power beam, and a sub-critical core that is neutronically coupled to the spallation target. This publication provides a comprehensive state of the art of the ADS technology by representing the different ADS concepts proposed worldwide in the last 15 years, as well as the related R&D activities and demonstration initiatives carried out at national international level.

[Applying statistics](#) John Wiley & Sons

Electrical units - Measuring devices - Direct-current circuit - Resistors - Cells and batteries - Magnetism - Inductance - Capacitance - Phase - Transformers - Semiconductors - Diodes - Amplifiers - Oscillators - Data transmission.

[Structural Use of Concrete](#) Springer Science & Business Media

A systematic and practical research guide to coding verbal data in all its forms.

[Spreadsheet Exercises in Ecology and Evolution](#) National Academies Press

The book presents a comprehensive discussion on software quality issues and software quality assurance (SQA) principles and practices, and lays special emphasis on implementing and managing SQA. Primarily designed to serve three audiences; universities and college students, vocational training participants, and software engineers and software development managers, the book may be applicable to all personnel engaged in a software projects Features: A broad view of SQA. The book delves into SQA issues, going beyond the classic boundaries of custom-made software development to also cover in-house software development, subcontractors, and readymade software. An up-to-date wide-range coverage of SQA and SQA related topics. Providing comprehensive coverage on multifarious SQA subjects, including topics, hardly explored till in SQA texts. A systematic presentation of the SQA function and its tasks: establishing the SQA processes, planning, coordinating, follow-up, review and evaluation of SQA processes. Focus on SQA implementation issues. Specialized chapter sections, examples, implementation tips, and topics for discussion. Pedagogical support: Each chapter includes a real-life mini case study, examples, a summary, selected bibliography, review questions and topics for discussion. The book is also supported by an Instructor ' s Guide.

[Chaos in Discrete Dynamical Systems](#) Springer Science & Business Media

Reviews all the basic types of surface emitting semiconductor lasers, including vertical cavity, etched-mirror integrated beam deflectors and grating out-coupled devices. The book also addresses such topics as edge-emitting arrays, thermal management and coherence.

[Annotated Bibliography on Soft X-ray Spectroscopy TAB/Electronics](#)

The materials in the book and on the accompanying disc are not solely developed with only the researcher and professional in mind, but also with consideration for the student: most of this material has been class-tested by the authors. The book is packed with some 100 computer graphics to illustrate the material, and the CD-ROM contains full-colour animations tied directly to the subject matter of the book itself. The cross-platform CD also contains the program ENDO, which enables users to create their own 2-D imagery with X-Windows. Maple scripts are provided to allow readers to work directly with the code from which the graphics in the book were taken.

[INIS Atomindex](#) John Wiley & Sons

Lonely because he is the only mouse in the church, Arthur asks all the town mice to join him. Unfortunately the congregation aren't so welcoming. But all is not lost when a robber tries to steal the church candlesticks, the mice foil his plans and win back their home.

[Status of Accelerator Driven Systems Research and Technology Development](#) Taylor & Francis

It would be difficult to imagine a more appropriate means of marking the Jubilee of the Dairy Research Laboratory, Division of Food Processing, CSIRO, than a publication on whey and lactose processing. The genesis of the Laboratory in 1939 was when the Australian dairy industry was very largely based on the supply of cream from farms to numerous butter factories, the skim milk being fed to pigs. By the mid-1940s, when Geof frey Loftus-Hills was appointed in charge of the fledgling Dairy Research Section, the main objective of the Section-the full utilization of the constituents of milk for human food-had been firmly established. Over the next two decades progress towards this objective was exemplified by the scientific and technological contributions made in specialized milk powders for use in recombining and in the manufacture of casein and cheese. Meanwhile farming practices changed from cream production to the supply of refrigerated whole milk to the factories. By the late 1960s the increasing production of cheese and casein had resulted in almost 2 million tonnes of whey per annum. This represented not only a waste disposal problem, but also under-utilization of over 100000 t of milk solids. The Laboratory had now grown to a staff of around 70, so it was possible to allocate some resources to this extra challenge.

[Routine Data Processing in Earthquake Seismology](#) McGraw-Hill Companies

As the first of its kind, Cell Phone Investigations is the most comprehensive book written on cell phones, cell sites, and cell related data. This book also features sample search warrant templates and updated material regarding the 2014 Supreme Court ruling. Cell Phone Investigations demonstrates how to examine mobile devices and sift through data without expensive equipment or years of specialized training. Features: -Includes a vast selection of search warrant templates -Demonstrates how to acquire phone records and how they are useful -Explains how cell towers and cell sites work and how they can apply to investigations -Explores digital evidence and its application in cell phone forensics -Illustrates how to handle locked devices

[Earth Day](#) Industrial Press Inc.

This superb new book is one of the first publications in recent years to provide a broad overview of this interdisciplinary field. Most of the book is written in a self contained manner, assuming only a general knowledge of statistical mechanics and basic probability theory . It provides the reader with a sound introduction to the field and to the analytical techniques necessary to follow its most recent developments

[Electronic Design](#) Springer Science & Business Media Between 1963 and 1969, the U.S. military carried out a series of tests, termed Project SHAD (Shipboard Hazard and Defense), to evaluate the vulnerabilities of U.S. Navy ships to chemical and biological warfare agents. These tests involved use of active chemical and biological agents, stimulants, tracers, and decontaminants. Approximately 5,900 military personnel, primarily from the Navy and Marine Corps, are reported to have been included in Project SHAD testing. In the 1990s some veterans who participated in the SHAD tests expressed concerns to the Department of Veterans Affairs (VA) that they were experiencing health problems that might be the result of exposures in the testing.

These concerns led to a 2002 request from VA to the Institute of Medicine (IOM) to carry out an epidemiological study of the health of SHAD veterans and a comparison population of veterans who had served on similar ships or in similar units during the same time period. In response to continuing concerns, Congress in 2010 requested an additional IOM study. This second study expands on the previous IOM work by making use of additional years of follow up and some analysis of diagnostic data from Medicare and the VA health care system.

[Power Trains, Compact Equipment](#) Academic Press

The exercises in this unique book allow students to use spreadsheet programs such as Microsoft Excel to create working population models. The book contains basic spreadsheet exercises that explicate the concepts of statistical distributions, hypothesis testing and power, sampling techniques, and Leslie matrices. It contains exercises for modeling such crucial factors as population growth, life histories, reproductive success, demographic stochasticity, Hardy-Weinberg equilibrium, metapopulation dynamics, predator-prey interactions (Lotka-Volterra models), and many others. Building models using these exercises gives students "hands-on" information about what parameters are important in each model, how different parameters relate to each other, and how changing the parameters affects outcomes. The "mystery" of the mathematics dissolves as the spreadsheets produce tangible graphic results. Each exercise grew from hands-on use in the authors' classrooms. Each begins with a list of objectives, background information that includes standard mathematical formulae, and annotated step-by-step instructions for using this information to create a working model. Students then examine how changing the parameters affects model outcomes and, through a set of guided questions, are challenged to develop their models further. In the process, they become proficient with many of the functions available on spreadsheet programs and learn to write and use complex but useful macros. Spreadsheet Exercises in Ecology and Evolution can be used independently as the basis of a course in quantitative ecology and its applications or as an invaluable supplement to undergraduate textbooks in ecology, population biology, evolution, and population genetics.

[Metals Abstracts](#) Butterworth-Heinemann

[Grid-Scale Energy Storage Systems and Applications](#) provides a timely introduction to state-of-the-art technologies and important demonstration projects in this rapidly developing field. Written with a view to real-world applications, the authors describe storage technologies and then cover operation and control, system integration and battery management, and other topics important in the design of these storage systems. The rapidly-developing area of electrochemical energy storage technology and its implementation in the power grid is covered in particular detail. Examples of Chinese pilot projects in new energy grids and micro grids are also included. Drawing on significant Chinese results in this area, but also including data from abroad, this will be a valuable reference on the development of grid-scale energy storage for engineers and scientists in power and energy transmission and researchers in academia. Addresses not only the available energy storage technologies, but also topics significant for storage system designers, such as technology management, operation and control, system integration and economic assessment Draws on the wealth of Chinese research into energy storage and describes important Chinese energy storage demonstration projects Provides practical examples of the application of energy storage technologies that can be used by engineers as references when designing new systems

[An Anthology of Classic Australian Folklore](#) Clarendon Press

Living on a damaged planet challenges who we are and where we live. This timely anthology calls on twenty eminent humanists and scientists to revitalize curiosity, observation, and transdisciplinary conversation about life on earth. As human-induced environmental change threatens multispecies livability, Arts of Living on a Damaged Planet puts forward a bold proposal: entangled histories, situated narratives, and thick descriptions offer urgent "arts of living." Included are essays by scholars in anthropology, ecology, science studies, art, literature, and bioinformatics who posit critical and creative tools for collaborative survival in a more-than-human Anthropocene. The essays are organized around two key figures that also serve as the publication ' s two openings: Ghosts, or

landscapes haunted by the violences of modernity; and Monsters, or interspecies and intraspecies sociality. Ghosts and Monsters are tentacular, windy, and arboreal arts that invite readers to encounter ants, lichen, rocks, electrons, flying foxes, salmon, chestnut trees, mud volcanoes, border zones, graves, radioactive waste—in short, the wonders and terrors of an unintended epoch. Contributors: Karen Barad, U of California, Santa Cruz; Kate Brown, U of Maryland, Baltimore; Carla Freccero, U of California, Santa Cruz; Peter Funch, Aarhus U; Scott F. Gilbert, Swarthmore College; Deborah M. Gordon, Stanford U; Donna J. Haraway, U of California, Santa Cruz; Andreas Hejnl, U of Bergen, Norway; Ursula K. Le Guin; Marianne Elisabeth Lien, U of Oslo; Andrew Mathews, U of California, Santa Cruz; Margaret McFall-Ngai, U of Hawaii, Manoa; Ingrid M. Parker, U of California, Santa Cruz; Mary Louise Pratt, NYU; Anne Pringle, U of Wisconsin, Madison; Deborah Bird Rose, U of New South Wales, Sydney; Dorion Sagan; Lesley Stern, U of California, San Diego; Jens-Christian Svenning, Aarhus U.

Control of Electrical Drives CSU Open Press
Differential geometry and topology have become essential tools for many theoretical physicists. In particular, they are indispensable in theoretical studies of condensed matter physics, gravity, and particle physics. Geometry, Topology and Physics, Second Edition introduces the ideas and techniques of differential geometry and topology at a level suitable for postgraduate students and researchers in these fields. The second edition of this popular and established text incorporates a number of changes designed to meet the needs of the reader and reflect the development of the subject. The book features a considerably expanded first chapter, reviewing aspects of path integral quantization and gauge theories. Chapter 2 introduces the mathematical concepts of maps, vector spaces, and topology. The following chapters focus on more elaborate concepts in geometry and topology and discuss the application of these concepts to liquid crystals, superfluid helium, general relativity, and bosonic string theory. Later chapters unify geometry and topology, exploring fiber bundles, characteristic classes, and index theorems. New to this second edition is the proof of the index theorem in terms of supersymmetric quantum mechanics. The final two chapters are devoted to the most fascinating applications of geometry and topology in contemporary physics, namely the study of anomalies in gauge field theories and the analysis of Polakov's bosonic string theory from the geometrical point of view. Geometry, Topology and Physics, Second Edition is an ideal introduction to differential geometry and topology for postgraduate students and researchers in theoretical and mathematical physics.

Whey and Lactose Processing Springer Science & Business Media

Earth Day celebrates our beautiful planet and calls us to act on its behalf. Some people spend the day planting flowers or trees. Others organize neighborhood clean-ups, go on nature walks, or make recycled crafts. Readers will discover how a shared holiday can have multiple traditions and be celebrated in all sorts of ways.

Surface Emitting Semiconductor Lasers and Arrays Springer Science & Business Media

Provides all the information needed for restoring and maintaining pianos, both for professionals and amateurs.

[Handbook of GC/MS](#) Springer Science & Business Media

Concretes, Construction materials, Buildings, Structures, Structural design, Loading, Reinforced concrete, Strength of materials, Framed structures, Beams, Slabs, Structural members, Shear stress, Columns, Walls, Stability, Stairs, Foundations, Reinforcement, Prestressed concrete, Precast concrete, Composite construction, Composition, Durability, Concrete mixes, Curing (concrete), Formwork, Finishes, Movement joints, Grouting

Fibonacci's Liber Abaci Cambridge University Press
Cast Iron Technology presents a critical review of the nature of cast irons. It discusses the types of cast iron and the general purpose of cast irons. It also presents the history of the iron founding industry. Some of the topics covered in the book are the description of liquid metal state; preparation of liquid metal; process of melting; description of cupola melting and electric melting methods; control of composition of liquid metal

during preparation; description of primary cast iron solidification structures; and thermal analysis of metals to determine its quality. Solidification science and the fundamentals of heat treatment are also discussed. An in-depth analysis of the hot quenching techniques is provided. The graphitization potential of liquid iron is well presented. A chapter is devoted to microstructural features of cast iron. The book can provide useful information to iron smiths, welders, students, and researchers.